

#20E  
9/30/02  
18

Boston  
Chicago  
London  
Los Angeles  
Miami  
Moscow  
Newport Beach  
New York  
St. Petersburg  
Silicon Valley  
Vilnius  
Washington, D.C.

A Partnership Including  
Professional Corporations  
600 13<sup>th</sup> Street, N.W.  
Washington, D.C. 20005-3096  
(202) 756-8000

Main Facsimile No. (202) 756-8087  
Facsimile Operator No. (202) 756-8090

MCDERMOTT, WILL & EMERY

F A C S I M I L E

**FROM:**

Sender: Lawrence T. Cullen Direct Phone: 202-756-8379  
Sender's E-Mail: lcullen@mwe.com  
Secretary: Jeannette Gilmore Direct Phone: 202-756-8086  
Client/Matter/Tkpr: 43890-401-4715 Date: September 16, 2002 Time Sent: \_\_\_\_\_  
Number of pages including this page: 13

**TO:**

Name: Examiner Leonard R. Leo Facsimile No. 703-308-7764  
Company: U.S. Patent and Trademark Office Contact No. 703-308-2611

FAX RECEIVED

SEP 16 2002

GROUP 3700

**Certification of Facsimile Transmission**  
I hereby certify that this paper is being facsimiled  
to the United States Patent and Trademark Office  
on the date stated below.  
Lawrence T. Cullen  
Type or print name of person signing certification  
Lawrence T. Cullen 9/16/02  
Signature Date

The information contained in this facsimile message is legally privileged and confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copy of this facsimile is strictly prohibited. If you have received this facsimile in error, please notify us immediately by telephone and return the original message to us at the above address via the United States Postal Service. Thank you.

Docket No.: 43890-401

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Kaoru SATO, et al.

Serial No.: 09/493,677

Group Art Unit: 3743

Filed: January 28, 2000

Examiner: Leonard R. Leo

For: HEAT SINK, METHOD OF MANUFACTURING THE SAME AND COOLING APPARATUS USING THE SAME

THE COMMISSIONER FOR PATENTS AND TRADEMARKS  
Washington, DC 20231

Dear Sir:

Transmitted herewith is an Amendment in the above identified application.

☐  
☐  
☐

No additional fee is required.

Applicant is entitled to small entity status under 37 CFR 1.27

Also attached:

The fee has been calculated as shown below:

	NO. OF CLAIMS	HIGHEST PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	FEE
Total Claims	26	22	4	\$18.00 =	\$72.00
Independent Claims	7	4	3	\$84.00 =	\$252.00
Multiple claims newly presented					\$0.00
Fee for extension of time					\$0.00
Total of Above Calculations					\$324.00

- ☒ Please charge my Deposit Account No. 500417 in the amount of \$324.00. An additional copy of this transmittal sheet is submitted herewith.
- ☒ The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 500417, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

MCDERMOTT, WILL &amp; EMERY

Lawrence T. Cullen  
Registration No. 44,489600 13<sup>th</sup> Street, N.W.  
Washington, DC 20005-3096  
(202)756-8000 LTC:MWE  
Facsimile: (202)756-8087  
Date: September 16, 2002

Docket No.: 43890-401

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Kaoru SATO, et al.

Serial No.: 09/493,677

Group Art Unit: 3743

Filed: January 28, 2000

Examiner: Leonard R. Leo

For: HEAT SINK, METHOD OF MANUFACTURING THE SAME AND COOLING  
APPARATUS USING THE SAME**SUPPLEMENTAL AMENDMENT**Commissioner for Patents  
Washington, DC 20231

Sir:

"Supplemental to an amendment filed on August 27, 2002, please amend the above  
application as follows:"

**IN THE CLAIMS**

Please amend claim 15 and add new claims 30-33 as follows:

15. (Four Times Amended) A cooling apparatus comprising:  
a heatsink comprising:

a) a column having a heat receiving face, wherein a cross section of said column  
has a shape whose sectional width decreases as it extends away from said heat receiving face;  
and